

DECLARATION FILE WITH U.S. DESIGNATED OFFICE UNDER U.S.C. 371(c)(4)

As a below named inventor, I hereby declare that:
 My residence, post office address and citizenship are as stated below next to my name;
 I verily believe I am the original, first and sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are named below) of the invention entitled: FUEL ASSEMBLY AND NUCLEAR REACTOR

described and claimed in international application no. PCT/JP87/00676 filed 14/09/87

and as amended on _____ (if any), which I have reviewed and for which I solicit a United States patent;
 I do not know and do not believe the same was ever known or used in the United States before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to my international application;
 I do not know and do not believe that the invention was in public use or on sale in the United States of America more than one year prior to said earlier application;
 that the invention has not been patented or made the subject of an inventor's certificate issued before the date of my international application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months prior to my international application;
 that I acknowledge my duty to disclose information of which I am aware which is material to the examination of my international application, and
 that as to applications for patents or inventor's certificates on the invention filed in any country foreign to the United States of America prior to my international application by me or my legal representatives or assigns,
☐ no such applications have been filed.
☐ such applications have been filed as follows:

EARLIEST FOREIGN APPLICATION(S), IF ANY, FILED WITHIN 12 MONTHS PRIOR TO THE INTERNATIONAL APPLICATION

COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	DATE OF ISSUE (day, month, year)	PRIORITY CLAIMED UNDER 35 U.S.C. 119
Japan	217165/86	17/09/86		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
				<input type="checkbox"/> YES <input type="checkbox"/> NO

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POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration no.)

Donald R. Antonelli, Reg. No. 20,296; David T. Terry, Reg. No. 20,178; Charles E. Wands, Reg. No. 25,649; Melvin Kraus, Reg. No. 22,466; James F. McKeown, Reg. No. 25,406; Stanley A. Wal, Reg. No. 26,432; David S. Safran, Reg. No. 27,997; William I. Solomon, Reg. No. 28,565, and Gregory E. Montone, Reg. No. 28,141.

SEND CORRESPONDENCE TO:

Antonelli, Terry & Wands
 Suite 600, 1919 Pennsylvania Avenue, N.W.
 Washington, D.C. 20006

DIRECT TELEPHONE CALLS TO:

(name and telephone number)
 Antonelli, Terry & Wands
 (202) 828-0300

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

201	Full Name of Inventor	FAMILY NAME <u>YOKOMIZO</u> 1-00	FIRST GIVEN NAME <u>Osamu</u>	SECOND GIVEN NAME
	Residence & Citizenship	CITY <u>Naka-gun</u> JPY	STATE OR FOREIGN COUNTRY <u>Japan</u>	COUNTRY OF CITIZENSHIP <u>Japan</u>
	Post Office Address	POST OFFICE ADDRESS <u>640-82, Suwama, Toukai-mura</u>	CITY <u>Naka-gun</u>	STATE & ZIP CODE/COUNTRY <u>Ibaraki-ken, Japan</u>
202	Full Name of Inventor	FAMILY NAME <u>YOSHIMOTO</u> 2-00	FIRST GIVEN NAME <u>Yuichiro</u>	SECOND GIVEN NAME
	Residence & Citizenship	CITY <u>Hitachi-shi</u> JPY	STATE OR FOREIGN COUNTRY <u>Japan</u>	COUNTRY OF CITIZENSHIP <u>Japan</u>
	Post Office Address	POST OFFICE ADDRESS <u>7-13, Daihara-cho 1-chome</u>	CITY <u>Hitachi-shi</u>	STATE & ZIP CODE/COUNTRY <u>Ibaraki-ken, Japan</u>
203	Full Name of Inventor	FAMILY NAME <u>KATAOKA</u> 3-00	FIRST GIVEN NAME <u>Yoshiyuki</u>	SECOND GIVEN NAME
	Residence & Citizenship	CITY <u>Naka-gun</u> JPY	STATE OR FOREIGN COUNTRY <u>Japan</u>	COUNTRY OF CITIZENSHIP <u>Japan</u>
	Post Office Address	POST OFFICE ADDRESS <u>1437-7, Suwama, Toukai-mura</u>	CITY <u>Naka-gun</u>	STATE & ZIP CODE/COUNTRY <u>Ibaraki-ken, Japan</u>

SIGNATURE OF INVENTOR 201 <u>Osamu Yokomizo</u>	SIGNATURE OF INVENTOR 202 <u>Yuichiro Yoshimoto</u>	SIGNATURE OF INVENTOR 203 <u>Yoshiyuki Kataoka</u>
DATE <u>December 10, 1987</u>	DATE <u>December 10, 1987</u>	DATE <u>December 10, 1987</u>

OVER

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201	Full Name of Inventor	FAMILY NAME <u>KASHIWA</u> 4-00	FIRST GIVEN NAME <u>Shinichi</u>	SECOND GIVEN NAME
	Residence & Citizenship	CITY <u>Hitachi-shi</u> Jpx	STATE OR FOREIGN COUNTRY <u>Japan</u>	COUNTRY OF CITIZENSHIP <u>Japan</u>
	Post Office Address	POST OFFICE ADDRESS <u>13-52, Narusawa-cho 2-chome</u>	CITY <u>Hitachi-shi</u>	STATE & ZIP CODE/COUNTRY <u>Ibaraki-ken, Japan</u>
202	Full Name of Inventor	FAMILY NAME <u>MASUHARA</u> 5-00	FIRST GIVEN NAME <u>Yasuhiro</u>	SECOND GIVEN NAME
	Residence & Citizenship	CITY <u>Hitachi-shi</u> Jpx	STATE OR FOREIGN COUNTRY <u>Japan</u>	COUNTRY OF CITIZENSHIP <u>Japan</u>
	Post Office Address	POST OFFICE ADDRESS <u>15-4-1, Suwa-cho 4-chome</u>	CITY <u>Hitachi-shi</u>	STATE & ZIP CODE/COUNTRY <u>Ibaraki-ken, Japan</u>
203	Full Name of Inventor	FAMILY NAME <u>TOMIYAMA</u> 6-00	FIRST GIVEN NAME <u>Akio</u>	SECOND GIVEN NAME
	Residence & Citizenship	CITY <u>Hitachi-shi</u> Jpx	STATE OR FOREIGN COUNTRY <u>Japan</u>	COUNTRY OF CITIZENSHIP <u>Japan</u>
	Post Office Address	POST OFFICE ADDRESS <u>6-1-102, Suwa-cho 4-chome</u>	CITY <u>Hitachi-shi</u>	STATE & ZIP CODE/COUNTRY <u>Ibaraki-ken, Japan</u>
SIGNATURE OF INVENTOR 201		SIGNATURE OF INVENTOR 202		SIGNATURE OF INVENTOR 203
<u>Shin-ichi Kashiwa</u>		<u>Yasuhiro Masuhara</u>		<u>Akio Tomiyama</u>
DATE <u>December 10, 1987</u>		DATE <u>December 10, 1987</u>		DATE <u>December 10, 1987</u>

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201	Full Name of Inventor	FAMILY NAME <u>ORII</u> <u>7-00</u>	FIRST GIVEN NAME <u>Akihito</u>	SECOND GIVEN NAME
	Residence & Citizenship	CITY <u>Hitachi-shi</u> <u>JPX</u>	STATE OR FOREIGN COUNTRY <u>Japan</u>	COUNTRY OF CITIZENSHIP <u>Japan</u>
	Post Office Address	POST OFFICE ADDRESS <u>28-1, Nishinarusawa-cho 2-chome</u> <u>Hitachi-shi</u>	CITY	STATE & ZIP CODE/COUNTRY <u>Ibaraki-ken, Japan</u>
202	Full Name of Inventor	FAMILY NAME <u>INOUE</u> <u>8-00</u>	FIRST GIVEN NAME <u>Kotaro</u>	SECOND GIVEN NAME
	Residence & Citizenship	CITY <u>Toukai-mura</u> <u>JPX</u>	STATE OR FOREIGN COUNTRY <u>Japan</u>	COUNTRY OF CITIZENSHIP <u>Japan</u>
	Post Office Address	POST OFFICE ADDRESS <u>1220-502, MURAMATSU, Toukai-mura</u>	CITY <u>Naka-gun</u>	STATE & ZIP CODE/COUNTRY <u>Ibaraki-ken, Japan</u>
203	Full Name of Inventor	FAMILY NAME <u>MOCHIDA</u> <u>9-00</u>	FIRST GIVEN NAME <u>Takaaki</u>	SECOND GIVEN NAME
	Residence & Citizenship	CITY <u>Hitachi-shi</u> <u>JPX</u>	STATE OR FOREIGN COUNTRY <u>Japan</u>	COUNTRY OF CITIZENSHIP <u>Japan</u>
	Post Office Address	POST OFFICE ADDRESS <u>2-1, Jounan-cho 3-chome</u>	CITY <u>Hitachi-shi</u>	STATE & ZIP CODE/COUNTRY <u>Ibaraki-ken, Japan</u>

SIGNATURE OF INVENTOR 201

Akihito Orii

SIGNATURE OF INVENTOR 202

Kotaro Inoue

SIGNATURE OF INVENTOR 203

Takaaki Mochida

DATE

December 10, 1987

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201	Full Name of Inventor	FAMILY NAME <u>HAYASHI</u>	FIRST GIVEN NAME <u>Tatsuo</u>	SECOND GIVEN NAME
	Residence & Citizenship	CITY <u>Hitachi-shi</u>	STATE OR FOREIGN COUNTRY <u>Japan</u>	COUNTRY OF CITIZENSHIP <u>Japan</u>
	Post Office Address	POST OFFICE ADDRESS <u>12-11, Hanayama-cho 2-chome</u>	CITY <u>Hitachi-shi</u>	STATE & ZIP CODE/COUNTRY <u>Ibaraki-ken, Japan</u>
202	Full Name of Inventor	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	Residence & Citizenship	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	Post Office Address	POST OFFICE ADDRESS	CITY	STATE & ZIP CODE/COUNTRY
203	Full Name of Inventor	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	Residence & Citizenship	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	Post Office Address	POST OFFICE ADDRESS	CITY	STATE & ZIP CODE/COUNTRY

SIGNATURE OF INVENTOR 201 <u>Tatsuo Hayashi</u>	SIGNATURE OF INVENTOR 202	SIGNATURE OF INVENTOR 203
DATE <u>December 10, 1987</u>	DATE	DATE